

# Data Sheet

We make sure



## LIFEBOOK E8420

### The expert without compromises

Issue: February 2009

Fujitsu Siemens Computers is the leading European IT manufacturer. With a strategic focus on innovative mobility and the dynamic data center, we offer a unique range of products and services from notebooks and desktops to servers and IT infrastructure solutions. Famous German engineering and exceptional in-house quality testing capabilities in our test centers ensure extraordinary product quality and reliability across all product lines.

#### LIFEBOOK E8420

The simple philosophy behind LIFEBOOK E8420: only the best is good enough. It is the ideal choice for performance-oriented office-based users: use state-of-the-art technology and work becomes a pleasure. 15.4-inch WSXGA+ display and an optional NVIDIA graphics card ensure a brilliant display screen and best performance.



#### More than enough performance

Maximum productivity even for the most demanding of applications thanks to state-of-the-art technology.

- Intel® Centrino® 2 with vPro™ technology, optional high-performance NVIDIA graphics card

#### Ideal substitute for a desktop

Effective working even for the most demanding of users in all situations.

- 15.4-inch WSXGA+ display, modular bay, optional second 320GB hard drive

#### Maximum connectivity

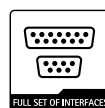
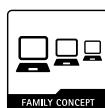
Available everywhere - wireless connectivity anytime anywhere, even if there is no hotspot nearby.

- Optional integrated 3G/UMTS, WLAN and Bluetooth

#### Maximum security

Protect your company data against unauthorized third-party access.

- Benefit from our end-to-end anti-theft concept with system and user protection, such as optional fingerprint sensor, TPM module and SmartCase Logon+



## Components

<b>Processor</b>	Intel® Core™2 Duo T9600 (2.8 GHz, 6 MB, 1066 MHz ) Intel® Core™2 Duo T9550 (2.66 GHz, 6 MB, 1066 MHz ) Intel® Core™2 Duo T9400 (2.53 GHz, 6 MB, 1066 MHz ) Intel® Core™2 Duo P8700 (2.53 GHz, 3 MB, 1066 MHz ) Intel® Core™2 Duo P8600 (2.4 GHz, 3 MB, 1066 MHz ) Intel® Core™2 Duo P8400 (2.26 GHz, 3 MB, 1066 MHz )
<b>Memory modules</b>	2 GB (1 module(s) with 2 GB, DDR3), 1066 MHz 1 GB (1 module(s) with 1 GB, DDR3), 1066 MHz
<b>Hard disk drives (internal)</b>	320 GB, 5400 rpm, SATA, 2.5-inch S.M.A.R.T. 160 GB, 7200 rpm, SATA, 2.5-inch S.M.A.R.T. 160 GB, 5400 rpm, SATA, 2.5-inch S.M.A.R.T. 160 GB, 5400 rpm, FDE-3, 2.5-inch S.M.A.R.T. 120 GB, 5400 rpm, SATA, 2.5-inch S.M.A.R.T.
Hard disk notes	ShockSensor for HDD shock protection One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. Accessible capacity may vary, also depending on used software and tool
<b>Display</b>	15.4-inch TFT 1680 x 1050 pixel (WSXGA+) non-glare display
<b>WLAN (optional)</b>	Atheros Minicard b/g 802.11 b/g Intel® Wireless WiFi Link 5300 AGN 11/13ch
<b>UMTS/HSUPA (optional)</b>	Sierra Wireless MC8790 (downlink 7.2 MBit/s, uplink 2.0 MBit/s)
<b>Modular bay options</b>	2nd battery 2nd hard disk drive DVD Super Multi Weight saver

Base unit	LIFEBOOK E8420 NVIDIA gfx	LIFEBOOK E8420 Intel gfx
<b>General system information</b>		
Chipset	Intel® PM45, ICH 9-ME	Intel® GM45, ICH 9-ME
BIOS features	BIOS based on Phoenix SecureCore	BIOS based on Phoenix SecureCore
Memory slots	2 DIMM	2 DIMM
Turbo memory	Optional 4 GB	Optional 4 GB
Supported capacity RAM (min.)	1 GB	1 GB
Supported capacity RAM (max.)	4 GB	4 GB
Memory notes	DDR3 - 1066 MHz 8 GB - with future memory models.	DDR3 - 1066 MHz 8 GB - with future memory models.
<b>Interfaces</b>		
Memory card slots	1	1
ExpressCard slots	1	1
PC Card slot (Type I/II)	1	1
SmartCard slot	1	1
SIM card slot	1 (option)	1 (option)
Modem (RJ-11)	1	1 (optional)
USB 2.0 total	4	4
FireWire (IEEE1394)	1	1
Serial (RS-232)	1	1
Parallel	1	1
VGA	1	1
HDMI	1	1
Ethernet (RJ-45)	1	1
DC-in	1	1
Audio: line-in / microphone	1	1
Audio: line-out / headphone	1	1
Internal microphones	2	2
Docking connector for Port Replicator	1	1
Kensington Lock support	2	2
<b>Wired communication</b>		
Modem type	Optional: 56 K V.92 modem MDC1.5	Optional: 56 K V.92 modem MDC1.5
LAN	Built-in 10/100/1000 MBit/s Intel® 82567LM	10/100/1000 MBit/s Intel® 82567LM
<b>Wireless technologies</b>		
Antennas	3 Dual band WLAN antennas, 2 UMTS antenna	3 Dual band WLAN antennas, 2 UMTS antenna
Infrared link (Fast IrDa 1.1, 4 Mbps)	1	1
WLAN notes	Import and usage according to country-specific regulations.	Import and usage according to country-specific regulations.

<b>Keyboard and pointing devices</b>	Spill-proof keyboard Number of keyboard keys: 86, Keyboard pitch: 19 mm, Keyboard stroke: 2.7 mm	Spill-proof keyboard Number of keyboard keys: 86, Keyboard pitch: 19 mm, Keyboard stroke: 2.7 mm
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Keyboard and pointing devices		
	TouchStick TouchPad with two mouse buttons and one scroll button Second set of mouse buttons EcoButton LockWorkstation button MobilityCenter button Optional: Fingerprint sensor	TouchStick TouchPad with two mouse buttons and one scroll button Second set of mouse buttons EcoButton LockWorkstation button MobilityCenter button Optional: Fingerprint sensor
Multimedia		
Audio type	On board	On board
Audio codec	Realtek ALC269	Realtek ALC269
Audio features	Stereo speakers, 2 internal microphones	Stereo speakers, 2 internal microphones
Camera	Optional: Built-in ConfCamera, 1.3 megapixel, VGA camera	Optional: Built-in ConfCamera, 1.3 megapixel, VGA camera
Graphics		
max. resolution external display	1920 x 1200 pixel	1920 x 1200 / true color / 60 Hz
Graphics brand name	NVIDIA® GeForce® 9300M GS	Intel® GMA 4500
Graphic features	DualView (Windows XP & Windows Vista)	DualView (Windows XP & Windows Vista)
Power supply		
AC adapter	19 V / 100 W (5.27 A)	19 V / 80 W (4.22 A)
Rated voltage range	100 - 240 V (AC Input)	100 - 240 V (AC Input)
Rated frequency range	50 - 60 Hz	50 - 60 Hz
1st battery	Li-Ion battery 8-cell, 5200 mAh, 74 Wh	Li-Ion battery 8-cell, 5200 mAh, 74 Wh
2nd battery	Li-Ion, 3800 mAh, 41 Wh	Li-Ion, 3800 mAh, 41 Wh
Battery features	Dynamic charge supported (rapid charge)	Dynamic charge supported (rapid charge)
Benchmark	Mobile Mark 2005	Mobile Mark 2005
Runtime 1st battery	up to 5 h	up to 5 h
Runtime 1st + 2nd battery	up to 8.5 h	up to 8.5 h
Battery notes	Disclaimer: Battery life may vary depending on product model, configuration, applications, power management settings and features utilized. Battery recharge time depends on usage.	Disclaimer: Battery life may vary depending on product model, configuration, applications, power management settings and features utilized. Battery recharge time depends on usage.
Power consumption		
Power consumption note	see white paper Energy Consumption	
Link to Energy White Paper	<a href="http://docs.fujitsu-siemens.com/dl.aspx?id=ba456383-5387-4df1-ac75-f6baf24a6e03">http://docs.fujitsu-siemens.com/dl.aspx?id=ba456383-5387-4df1-ac75-f6baf24a6e03</a>	
Dimensions / Weight / Environmental		
Dimension (W x D x H)	357 x 260 x 36 mm	357 x 260 x 36 mm
Weight	2.7 kg	2.7 kg
Weight notes	Weight may vary depending on actual configuration.	Weight may vary depending on actual configuration.
Operating ambient temperature	5 - 35°C	5 - 35°C
Operating relative humidity	20 - 85 % (running)	20 - 85 % (running)
Operating system		
Operating system optional preinstalled	Microsoft® Windows Vista® Business 32bit Microsoft® Windows Vista® Home Basic TwinLoad Microsoft® Windows® XP Professional (DVD)	Microsoft® Windows Vista® Business 32bit Microsoft® Windows Vista® Home Basic TwinLoad Microsoft® Windows® XP Professional (DVD)
Operating system compatible	Microsoft® Windows® XP Professional	Microsoft® Windows® XP Professional
Operating system notes	Driver support for Microsoft Windows XP	Driver support for Microsoft Windows XP
Additional Software		
Additional software (preinstalled)	Adobe Acrobat Reader Application Panel Display Manager ShockSensor Utility Power Saving Utility Wireless Selector Utility EasyGuide online user documentation Nero Essentials S (CD / DVD write software) Norton Internet Security (incl. Firewall) on Drivers & Utilities DVD for Microsoft Windows XP Toshiba Stack 4.x	Adobe Acrobat Reader Application Panel Display Manager ShockSensor Utility Power Saving Utility Wireless Selector Utility EasyGuide online user documentation Nero Essentials S (CD / DVD write software) Norton Internet Security (incl. Firewall) on Drivers & Utilities DVD for Microsoft Windows XP Toshiba Stack 4.x
Additional software (optional)	Windows Vista® recovery media Drivers & Utilities DVD (DUDVD) UMTS connection manager (optional with UMTS) SmartCase Logon+	Windows Vista® recovery media Drivers & Utilities DVD (DUDVD) UMTS connection manager (optional with UMTS) SmartCase Logon+
Manageability		
Manageability features	DeskUpdate Driver management DeskView Migrate (optional) DeskView Control (optional)	DeskUpdate Driver management DeskView Migrate (optional) DeskView Control (optional)
Manageability type	DeskView 10.x client management including:	DeskView 10.x client management including:

<b>Manageability</b>		
DeskView features	On/Offline remote client management Detailed system inventory management and reports BIOS Management Remote power management System notifications Security Remote Control DeskView Helpdesk Integration WoL (Wake on LAN)	On/Offline remote client management Detailed system inventory management and reports BIOS Management Remote power management System notifications Security Remote Control DeskView Helpdesk Integration WoL (Wake on LAN)
Supported standards	WMI PXE BootP (made4you)	WMI PXE BootP (made4you)
Manageability link	<a href="http://www.fujitsu-siemens.com/solutions/it_infrastructure_solutions/manageability/featurefinder.html">http://www.fujitsu-siemens.com/solutions/it_infrastructure_solutions/manageability/featurefinder.html</a>	<a href="http://www.fujitsu-siemens.com/solutions/it_infrastructure_solutions/manageability/featurefinder.html">http://www.fujitsu-siemens.com/solutions/it_infrastructure_solutions/manageability/featurefinder.html</a>

<b>Security</b>		
Physical security	Kensington Lock support	Kensington Lock support
System security	Optional: Trusted platform module (TPM 1.2) Symantec Norton Internet Security (90 day test version)	Optional: Trusted platform module (TPM 1.2) Symantec Norton Internet Security (90 day test version)
User security	Optional: Integrated Fingerprint Sensor Integrated SmartCard controller in PC Card with system lock support Separate SmartCard slot Hard disk password SystemLock BIOS SmartCard security User and supervisor BIOS password	Optional: Integrated Fingerprint Sensor Integrated SmartCard controller in PC Card with system lock support Separate SmartCard slot Hard disk password SystemLock BIOS SmartCard security User and supervisor BIOS password

<b>Compliance</b>		
Europe	CE CE!	
USA/Canada	FCC Class B (Depending on wireless configuration) CSA cUL UL	
Global	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronical equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL) WiFi certified Energy Star 4.0 EPEAT Silver	
Compliance link	<a href="https://sp.fujitsu-siemens.com/sites/certificates/default.aspx">https://sp.fujitsu-siemens.com/sites/certificates/default.aspx</a>	

<b>Portreplicator interfaces (optional)</b>		
DC-in	1	
Power on switch	1	
Headphones	1	
Audio: microphone in	1	
USB 2.0 total	4	
VGA	1	
DVI	1 (with HDCP Support)	
Serial (RS-232)	1	
Mouse / Keyboard (PS/2)	1	
Ethernet (RJ-45)	1	
Parallel	1	
Kensington Lock support	2	

<b>Warranty</b>		
Standard Warranty	2 years	
Service level	Collect & Return Service / Bring-In Service (depending on country)	
<b>Maintenance and Support Services - the perfect extension</b>		
Recommended Service	3 years, On-site Service	
Spare Parts availability	5 years	
Service Weblink	<a href="http://www.fujitsu-siemens.com/Supportservice">www.fujitsu-siemens.com/Supportservice</a>	

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